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RUSSIAN, bk, Izvestiya Sputniki Zemli,
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NASA TT F-8131

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No 8, 1961, *pp. 1-9*

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Effect of the Earth's Orbital Motion on Radio-Frequency
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RUSSIAN, bk, *Izvestiya Sputniki Zemli*,
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Kurnosova, L. V., Razorenov, L. A., and
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THE INVESTIGATION OF THE NUCLEAR COM-
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Order from OTS or SLA \$1.10 63-20397

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v. 8, p. 87-89.

DESCRIPTORS: *Cosmic rays, *Sounding rockets,
Nuclear properties, Radiation measurement systems,
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rocket. The experiment and results are discussed.
(Translator)

(Nuclear Physics and Nuclear Chemistry, TT, v. 10,
no. 12)

63-20397

I. Kurnosova, L. V.
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Mikirov, 11 pp.

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DESCRIPTORS: *Moon, Exploration, Photography, *Satellite vehicle research, Lunar probes

(Astronomy--Astrophysics, TT, v. 7, no. 6)

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- III. Shchegolev, D. E.
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Photographic Processes Used in Making the First
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NLL/M. 8941/190, 404

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INTERNATIONAL GEOLOGY REVIEW, VOL. 4,
NO. 6, P. 631-[756], June 62, 1v. 119 refs.
Order from AGI \$5.00, \$55.00/year

Trans. of *Iskusstvennye Sputniki Zemli* (USSR) 1961,
v. 9, p. 56-61; *Mineralogicheskii Sbornik* (USSR) 1960,
v. 14, p. 80-85, 184-194, 482-483; *Geologiya i Geo-
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Geologicheskii* (USSR) 1960, v. 35(65) no. 4, p. 22-28;
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Germany) 1959, v. 93, May, p. 1-44; [*Chishitsugaku
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mono. *Sovremennye Osadki Kaspijskogo Morya*,
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1. Title: Anthophyllite
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Artificial Earth Satellites, by L. V. Kurnosova,
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Order from STS \$10.60 STS Trans #15

Trans. of Iskusstvennye Sputniki Zemli (USSR) 1961, v. 9, p. 41-47.

DESCRIPTORS: *Moon, Exploration, Photography,
*Satellite vehicle research, Lunar probes.

(Astronomy--Astrophysics, TT, v. 7, no. 6)

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Service, Altadena, Calif.

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Structure of the Moon's Surface and Investigation
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No 9, 1961, pp 56-61. *908 7995*

NASA TT F-8117

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Disposition of the Inner Radiation Belt and
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The Outer Radiation Belt and Polar Auroras,
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RUSSIAN, bk, Izvestiya Sputniki Zemli, No 9,
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NASA TT F-8116

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Dosimetric Measurements on the Second Soviet
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Order from STS \$10.90 STS Trans #18

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DESCRIPTORS: *Satellite vehicle research, *Space-
ships, Instrumentation, *Radiometers, Tests,
Cosmic rays.

(Astronomy--Astrophysics, TT, v. 7, no. 6)

- I. Papkov, S. F.
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Dragun, G. S., Kurnosova, L. V. and others.
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Order from STS \$21.60

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Trans. of Iskusstvennye Sputniki Zemli (USSR) 1961,
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DESCRIPTORS: *Satellite vehicle research, *Rocket
research, *Cosmic rays, Nuclei, Detection,
Instrumentation.

(Astronomy--Astrophysics, TT, v. 7, no. 6)

62-12536

- I. Title: Cosmic rockets
- I. Dragun, G. S.
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Investigation of Sun's Short Wave Radiation,
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RUSSIAN, bk, Izhivstvennyye Spataiki Zemli,
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NASA TF P-8178

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DESCRIPTORS: *Sun, *X-rays, *Solar radiation,
Fluxes, *Sounding rockets, *X-ray spectrum,
Bremsstrahlung, Measurement, Scientific satellites,
Solar spectrum.

(Astronomy--Astrophysics, TT, v. 10, no. 3)

I. Mandel'shtam, S. L.
II. Tlido, I. N.
III. Title: Measurements ...

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Investigation of the Intensity of Charged
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No 10, 1961, pp 22-33.

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Sci - Space/Res

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The Outer Radiation Belt of the Earth at
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Order from STS \$6.50 STS Trans #6

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DESCRIPTORS: *Radioactivity, *Magnetic fields,
*Atlantic Ocean, Ionosphere.

(Astronomy--Astrophysics, TT, v. 7, no. 9)

- I. Vernov, S. N.
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No 10, 1961, pp 45-47.

NASA TT: F-8163

Sci - Space/Res
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Filtering Apparatus for the Investigation
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A. I. Yefremov, A. L. Potemoshenkiy,
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No 10, 1961, pp 48-54.

NASA TT F-8180

Eci - Phys

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Photocathodes for the Investigation of Sun's
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No 10, 1961, pp 55-60. 9077307

NASA TR F-8181

Sci - Space/Res, Phys 30
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Order from STS \$10.90 STS Trans #8

Trans. of Iskusstvennyye Sputniki Zemli (USSR) 1961,
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DESCRIPTORS: Space flight, *Space environmental
conditions, Genetics, Reproduction, *Mutations,
*Chromosomes, *Drosophila, Radiation effects.

(Biological Sciences--Radiobiology, TT, v. 7, no. 9)

- I. Glembotski, Ya. L.
- II. Abeleva, E. A.
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Order from STS \$3.90 STS Trans #9

Trans. of Iskusstvennye Sputniki Zemli (USSR) 1961,
v. 10, p. 69-71.

DESCRIPTORS: *Mutations, Space flight,
*Drosophila, Genetics, Vibration, Radiation effects.

(Biological Sciences--Radiobiology, TT, v. 7, no. 9)

- I. Parfenov, G. P.
- II. STS Trans-9
- III. Scientific Translation
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Order from STS \$11.50 STS Trans #10

Trans. of Iskusstvennye Sputniki Zemli (USSR) 1961,
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DESCRIPTORS: *Genetics, *Space flight, Plants,
*Actinomyces.

(Biological Sciences--Radiobiology, TT, v. 7, no. 9)

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- II. Prokof'eva-Bel'govskiya, A. A.
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Allium Fistulosum (Luk Batun) i Nigella Damascena
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Order from STS \$3.90 STS Trans #11

Trans. of Ispuskatvennye Sputniki Zemli (USSR) 1961,
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DESCRIPTORS: Space flight, *Seeds, Onions, Nuts,
*Radiation effects.

(Biological Sciences--Radiobiology, TT, v. 7, no. 9)

- I. Sidorov, B. N.
- II. Sokolov, N. N.
- III. STS Trans-11
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No 10, 1961, pp 96, 97.

NASA TT F-6164

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Sci. - Geophys
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Sci - Space Res

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NASA TT F-8162
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OTS 62-24051

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Measurements by Means of Spaceships, by S. L.
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RUSSIAN, bk, Izvestiya Sputniki Zemli, No 11,
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Processing of Nuclear Emulsions on Board the Second
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Determination of the Induced Radioactivity in the
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NASA TT F-8234

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NASA TT F-8036

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NASA TTF-8225

Sci

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Trans. of [Iskusstvennye Sputniki Zemli] (USSR) 1962,
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The author proposes two mechanisms for the condensation of dust particles around the earth, namely: (1) that the capture of the interplanetary dust particles by the earth is associated with their non-elastic collisions among themselves in the neighborhood of the earth, and (2) that the upper atmosphere causes deceleration of the dust particle velocities. (Author)

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Trans. of Iskusstvennye Sputnik Zemli (USSR) 1962,
v. 13, p. 3-22

DESCRIPTORS: *Position finding, *Orbital trajectories,
*Space navigation, *Rendezvous guidance, Elliptical
orbit trajectories, Partial differential equations,
Celestial mechanics, Numerical analysis.

The explicit guidance problem of Keplerian mechanics
is discussed and analyzed in detail as to the types of
motion between two positions and the existence and
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